

IN THE CLAIMS

1.-6. (canceled)

7. (currently amended) A reproducing apparatus for reproducing an audio signal, comprising:

a first plurality of digital filters each supplied with an audio signal;

a second plurality of digital filters each supplied with the audio signal;

a speaker array in a configuration in which plurality of speakers are arranged, in which signals representative of outputs of the first plurality digital filters are delivered to the respective plurality of speakers to form a sound field;

a plurality of subtraction circuits respectively supplied with the outputs of the first plurality of digital filters and outputs of the second plurality of digital filters and operable to perform respective subtraction operations therebetween, in which signals representative of outputs of the plurality of subtraction circuits are respectively delivered to the plurality of speakers,

in which predetermined delay times are set at the first plurality of digital filters so that respective propagation times required until the audio signal arrives at a first point within the sound field through the first plurality of digital filters and the respective plurality of speakers coincide with each other, and

in which predetermined transfer characteristics are set at the second plurality of digital filters so as to cause a ~~cancelling~~-canceling sound wave to be produced to control sound at a second point within the sound field among sounds formed from outputs of the first plurality of digital filters; and,

wherein (i) a ~~signal-channel~~ signal for forming at least a portion of the audio signal that arrives at the first point and (ii) ~~corresponding noise~~ a leakage canceling signal for forming at least a portion of the canceling sound wave based on the ~~signal-channel~~ are supplied to and reproduced by the same speaker.

8. (currently amended) The reproducing apparatus for reproducing an audio signal as set forth in claim 7,

wherein a primary sound wave resulting from the ~~signal-channel~~ signal supplied to the speaker is reflected on a wall surface, and arrives at the first point.

9. (previously presented) The reproducing apparatus for reproducing an audio signal as set forth in claim 8,

wherein the second point is at substantially the same location as the first point.

10.-13. (canceled)